U.S. Patent Application Scriul No. 10/518,147 Reply to Office Action dated October 4, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- (Currently Amended) A cathode assembly for use in the refining of metals, comprising: 1.
- a substantially fat flat deposition plate fixedly attached along an upper edge thereof to an elongate hanger bar thereby defining a connection;
- a protective cladding abutting said deposition plate and at least partially surrounding said hanger bar such that a cavity is defined in the region of said connection; and
 - a curable corrosion resistant material filling said cavity.
- (Currently Amended) The cathode assembly as recited in claim 1, wherein said 2. deposition plate is attached to said hanger bar by means of at least one weld.
- (Currently Amended) The cathode assembly as recited in claim 1, wherein said 3. protective cladding is preformed.
- (Currently Amended) The cathode assembly as recited in claim 1, wherein said corrosion 4. resistant material is an epoxy resin.
- (Currently Amended) The cathode assembly as recited in claim 1, wherein said 5. deposition plate and said cladding are fabricated from stainless steel.

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- 6. (Currently Amended) The cathode <u>assembly</u> as recited in claim 1, wherein said cladding is attached to said deposition plate by means of at least one weld.
- (Currently Amended) The cathode <u>assembly</u> as recited in claim 1, wherein an inverted vprofile is machined in a lower edge of said deposition plate.
- 8. (Original) A method for fabricating a cathode for use in the refining of metals, said cathode being of the type comprising a deposition plate for electrodepositing metals, said method comprising the steps of:
 - providing a substantially flat deposition plate having an upper edge;
 - (b) fastening an elongate hanger bar on said upper edge of said deposition plate, thereby providing a deposition plate assembly;
 - (c) securing a protective cladding to said deposition plate assembly so as to substantially overlay the area of fastening between said hanger bar and said upper edge of said deposition plate, thereby defining a cavity between said cladding and said deposition plate assembly; and
 - (d) filling said cavity with a corrosion resistant material thereby providing a fabricated cathode.
- 9. (Original) The method for fabricating a cathode as in claim 8, wherein said fastening step includes welding said upper edge to said hanger bar.
- 10. (Original) The method for fabricating a cathode as in claim 8, wherein said filling step comprises boring at least one hole in said protective cladding and injecting a liquid phase of said

corrosion resistant material into said cavity, said corrosion resistant material subsequently hardening into a solid phase.

- 11. (Original) The method for fabricating a cathode as in claim 10, wherein said corrosion resistant material is an epoxy resin.
- 12. (Original) The method for fabricating a cathode as in claim 8, wherein said attaching step comprises welding said cladding to said deposition plate by means of at least one weld.